

Figure 1

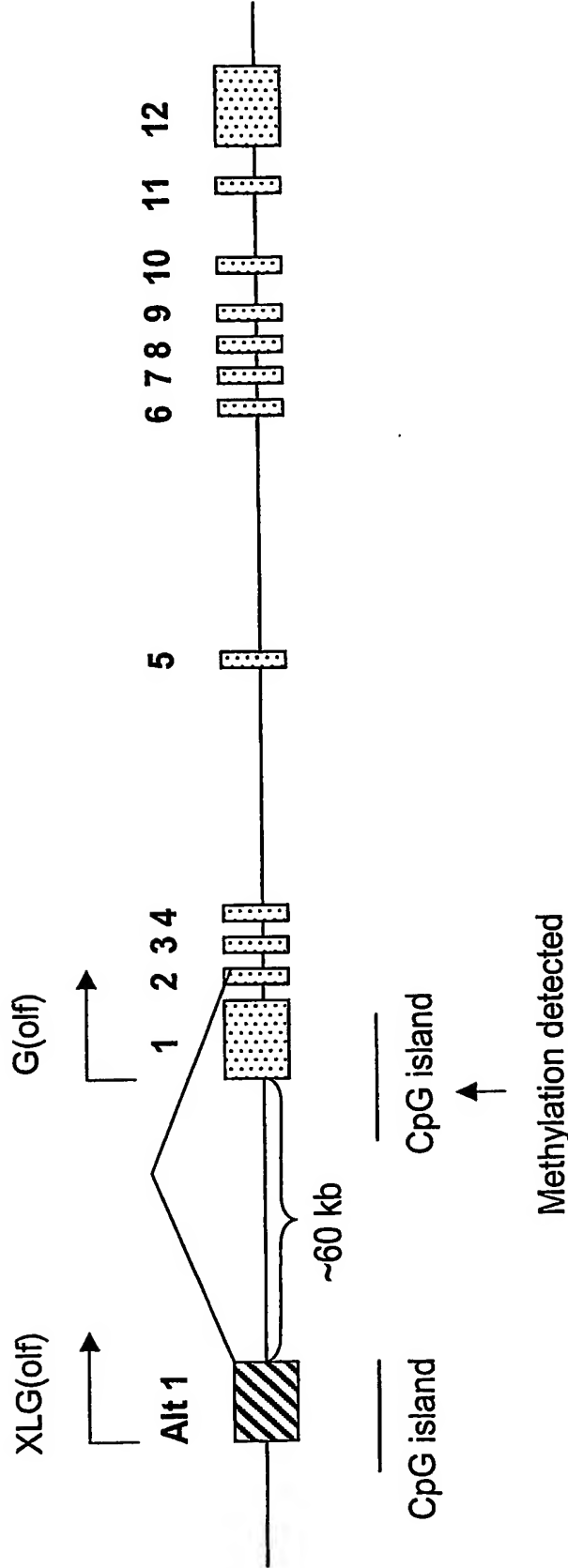


Figure 2

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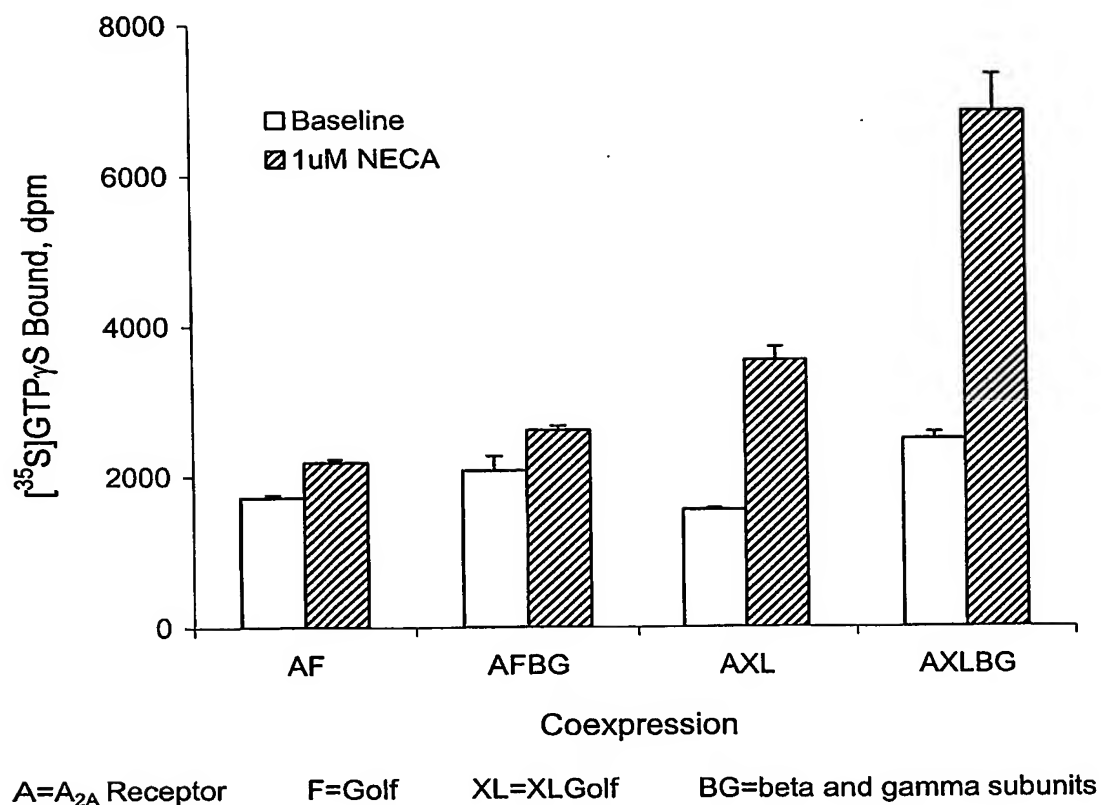
Figure 4

Figure 5

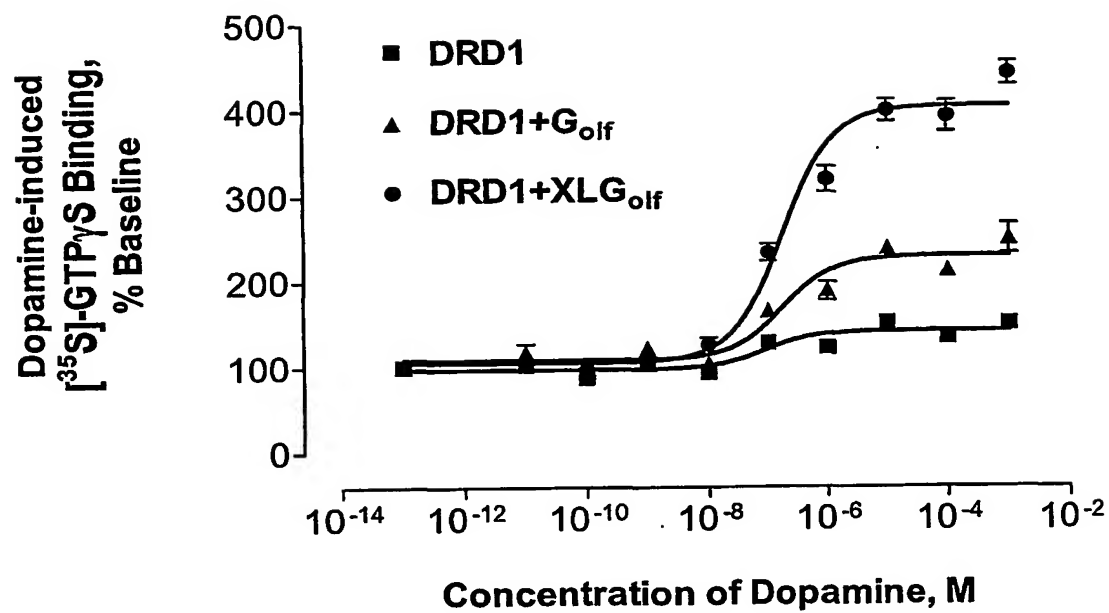
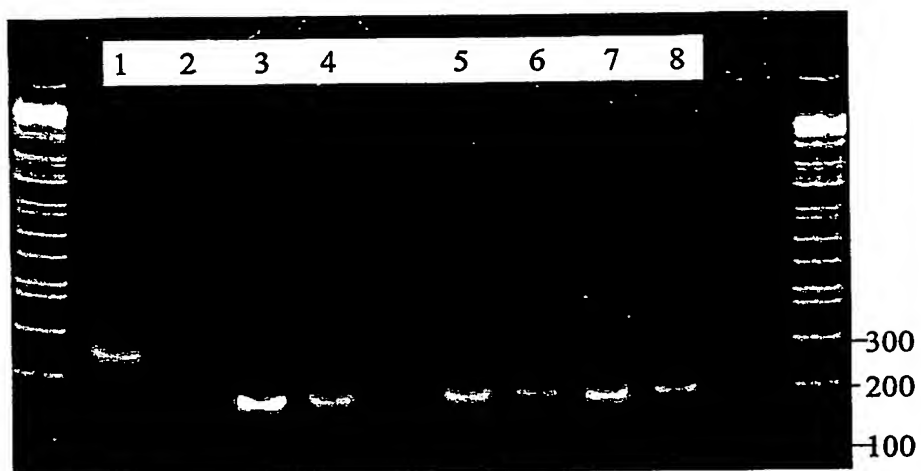


Figure 6

T98G Glioma DNA Golf and XL Golf
MSP



BEST AVAILABLE COPY

Figure 7

Peripheral Blood DNA Golf and XL Golf
MSP



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Figure 8

Human GNAL locus; 197140 nt

Features

Alternate exon 1	2001..2685
CpG island	2118..2881
Variation T/C	2198
Variation A/G	2216
Variation C/T	2268
XLGolf start codon	2309
Variation repeat	2421..2426
Variation A/G	2445
Variation repeat	2746..2765
Variation C/T	2765
CpG island	64253..65647
Variation T/G	64734
Variation C/T	64748
Exon 1	64925..65323
Golf start codon	65179
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Exon 3	66373..66427
Exon 4	66571..66690
Exon 5	137663..137760
Exon 6	175140..175194
Exon 7	177278..177351
Exon 8	179913..179971
Exon 9	181288..181408
Exon 10	185013..185143
Exon 11	189366..189433
Exon 12	193734..194571
Stop codon	193878

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Fig. 8 (cont.)

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Figure 9**Amino Acid Sequence of Human Golf**

1	MGCLGGNSKT	TEDQGVDEKE	RREANKKIEK	QLQKERLAYK	ATHRLLLLGA	GESGKSTIVK
61	QMRILHVNGF	NPEEKKQKIL	DIRKNVKDAI	VTIVSAMSTI	IPPVPLANPE	NQFRSDYIKS
121	IAPITDFEYS	QEFFDHVKKL	WDDEGVKACF	ERSNEYQLID	CAQYFLERID	SVSLVDYTPT
181	DQDLLRCRVL	TSGIFETRFO	VDKVNFMFD	VGGQDERRK	WIQCFNDVTA	IIYVAACSSY
241	NMVIREDNNT	NRLRESLDLF	ESIWNNRWLR	TISIILFLNK	QDMLAEKVLA	GKSKIEDYFP
301	EYANYTVPED	ATPDAGEDPK	VTRAKFFIRD	LFLRISTATG	DGKHICYPHF	TCAVDTENIR
361	RVFNDCRDII	QRMHLKQYEL	L			

Figure 10**cDNA and Amino Acid Sequence of Human XLGolf**

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      M G L C Y S L R P L L F G G P G D D P C
1  ATGGGTCTGTGCTACAGTCTGCGGCCGCTGCTTTTCGGGGGCCCAGGGGACGACCCCTGC
   A A S E P P V E D A Q P A P A P A L A P
61  GCGGCCTCGGAGCCGCCGGTGGAGGACGCGCAGCCCCCGGCCCGGCCCTGGCCCCA
   V R A A A R D T A R T L L P R G G E G S
121  GTCCGGGCGGCCGCAAGGGACACGGCCCGGACCCTGCTCCCTCGGGGCGGCGAAGGGAGC
   P A C A R P K A D K P K E K R Q R T E Q
181  CCGGCATGCGCTCGGCCCAAAGCAGACAAGCCGAAGGAGAAGCGGCAGCGCACCGAGCAG
   L S A E E R E A A K E R E A V K E A R K
241  CTGAGTGCCGAGGAGCGCGAGCGCCAAGGAGCGCGAGGCGGTCAAGGAGGCGAGGAAA
   V S R G I D R M L R D Q K R D L Q Q T H
301  GTGAGCCGGGGCATCGACCGCATGCTGCGCGACCAGAAGCGCGACCTGCAGCAGACGCAC
   R L L L L G A G E S G K S T I V K Q M R
361  CGGCTCCTGCTGCTCGGGGCTGGTGAAGTCTGGGAAAAGCACCATCGTCAAACAGATGAGG
   I L H V N G F N P E E K K Q K I L D I R
421  ATCCTGCACGTCAATGGGTTTAATCCCGAGGAAAAGAAACAGAAAATTCTGGACATCCGG
   K N V K D A I V T I V S A M S T I I P P
481  AAAAATGTTAAAGATGCTATCGTGACAATTGTTTCAGCAATGAGTACTATAATACCTCCA
   V P L A N P E N Q F R S D Y I K S I A P
541  GTTCCGCTGGCCAACCCTGAAAACCAATTTTCGATCAGACTACATCAAGAGCATAGCCCCCT
   I T D F E Y S Q E F F D H V K K L W D D
601  ATCACTGACTTTGAATATTCCCAGGAATTCTTTGACCATGTGAAAAAACTTTGGGACGAT
   E G V K A C F E R S N E Y Q L I D C A Q
661  GAAGGCGTGAAGGCATGCTTTGAGAGATCCAACGAATACCAGCTGATTGACTGTGCACAA
   Y F L E R I D S V S L V D Y T P T D Q D
721  TACTTCCTGGAAAGAATCGACAGCGTCAGCTTGGTTGACTACACACCCACAGACCCAGAC
   L L R C R V L T S G I F E T R F Q V D K
781  CTCTCAGATGACAGAGTTCTGACATCTGGGATTTTTTGAGACACGATTCCAAGTGGACAAA
   V N F H M F D V G G Q R D E R R K W I Q
841  GTAAACTTCCACATGTTTGATGTTGGTGGCCAGAGGGATGAGAGGAGAAAATGGATCCAG
   C F N D V T A I I Y V A A C S S Y N M V
901  TGCTTTAACGATGTCACAGCTATCATTTACGTCGCAGCCTGCAGTAGCTACAACATGGTG
   I R E D N N T N R L R E S L D L F E S I
961  ATTCGAGAAGATAACAACACCAACAGGCTGAGAGAGTCCCTGGATCTTTTGAAAGCATC
   W N N R W L R T I S I I L F L N K Q D M
1021  TGGAAACAACAGGTGGTTACGGACCATTCTATCATCTTGTTCTTGAACAAACAAGATATG
   L A E K V L A G K S K I E D Y F P E Y A
1081  CTGGCAGAAAAAGTCTTGGCAGGGAAATCAAAAATTGAAGACTATTTCCAGAATATGCA
   N Y T V P E D A T P D A G E D P K V T R
1141  AATTATACTGTTCTGAAGACGCAACACCAGATGCAGGAGAAGATCCCAAAGTTACAAGA
   A K F F I R D L F L R I S T A T G D G K
1201  GCCAAGTTCTTTATCCGGGACCTGTTTTTGAGGATCAGCACGGCCACCGGTGACGGCAAA
   H Y C Y P H F T C A V D T E N I R R V F
1261  CATTACTGCTACCCGCACCTTCACCTCGCCGCTGGACACAGAGAACATCCGCAGGGTGTTTC
   N D C R D I I Q R M H L K Q Y E L L *
1321  AACGACTGCCGCGACATCATCCAGCGGATGCACCTCAAGCAGTATGAGCTCTTGTGA

```


Figure 11

G_{olf} -----
 G_{as} -----
 XLG_{olf} -----
 XLG_{as} MEISGPPFEIGSAPAGVDDTPVNMDSPPIALDGPPIKVSGAPDKRERAERPPVEEEAAEM

G_{olf} -----
 G_{as} -----
 XLG_{olf} -----
 XLG_{as} EGAADAAEGGKVPSPGYGSPAAGAASADTAARAAPAAPADPDGATPEDPDSGTAPADPD

G_{olf} -----
 G_{as} -----
 XLG_{olf} -----
 XLG_{as} SGAFADPDGGAAPAAPADPDGGAAPDAPADPDGGAAPDAPADPDAGAAPEAPAAPAAAE

G_{olf} -----
 G_{as} -----
 XLG_{olf} -----
 XLG_{as} TRAAHVAPAAPDAGAPTAPAASATRAAQVRRASAAPASGARRKIHLRPSPPEIQAADPP

G_{olf} -----
 G_{as} -----
 XLG_{olf} -----
 XLG_{as} TPRPTRASAWRGKSESSRGRRVYYDEGVASSDDSSGDESDDGTSGCLRWFQHRNRNRRR

G_{olf} -----MGCLGNSKTTEDQGVDEKE
 G_{as} -----MGCLG-NSKT-EDQRNEEKA
 XLG_{olf} LAPVRAAARDTARTLLPRGGEGSPACARPKADKPKEKRQTEQLSAEEREAAKEREAVKE
 XLG_{as} KPQRNLLRNFLVQAFGGCFGRSESPQPKASRSLKVKKVPLAEKRRQMRKEALEKRAQKRA

βγ binding domain

G_{olf} RREANKKIEKQLQKERLAYKATHRLLLL**GAGESGKSTIVKQMRILHVNGFNPE**
 G_{as} QREANKKIEKQLQKDKQVYRATHRLLLL**GAGESGKSTIVKQMRILHVNGFNGE**
 XLG_{olf} ARKVSRGIDRMLRDQKRDLOQTHRLLLL**GAGESGKSTIVKQMRILHVNGFNPE**
 XLG_{as} EKKRSLIDKQLQDEKMGYMCTHRLLLL**GAGESGKSTIVKQMRILHVNGFNGE**

. . . * . . . *****

Figure 12

	1				50
G(olf)	-----	-----	-----	-----	-----
XL-G(olf)	atgggtctgt	gctacagtct	gcggccgctg	cttttcgggg	gcccagggga
	51				100
G(olf)	-----	-----	-----	-----	-----
XL-G(olf)	cgaccctg	gcggcctcgg	agccgcccgt	ggaggacg	cagccccccc
	101				150
G(olf)	-----	-----	-----	-----	-----
XL-G(olf)	cggccccggc	cctggcccca	gtccggggcg	ccgcaaggga	cacggccccg
	151				200
G(olf)	-----	-----	-----	-----	-----
XL-G(olf)	accctgctcc	ctcggggcg	cgaagggagc	ccggcatg	ctcggcccaa
	201				250
G(olf)	-----	-----	-----	-----	-----
XL-G(olf)	agcagacaag	ccgaaggaga	agcggcagcg	AtcGcGtat tTGaGcGcCa	cAccGaGcag cTGaGtGcCg
	251				300
G(olf)	Acagcaagac	GaCGGaaqAc	cAGgGCGtcG	atGaaaAaGA	acgacGcgAg
XL-G(olf)	Aggagcgcgga	GgCGGccaAg	gAGcGCGagG	cgGtcAAgGA	ggcgaGgaAa
	301				350
G(olf)	GccAaCaana	acATCGAga	gcaGtTGCag	aAacAGcgcC	tgGcttacaA
XL-G(olf)	GtgAgCcggg	gcATCGAccg	catGcTGCgc	gAccAGaagC	gcGacctgca
	351				400
G(olf)	GcctACcCAC	CGcCTaCTGC	TcCTgGGGcC	TGGTGAGTCT	GGGAAAAGCA
XL-G(olf)	GcagACgCAC	CGgCTcCTGC	TgCTcGGGcC	TGGTGAGTCT	GGGAAAAGCA
	401				450
G(olf)	CTATCGTCAA	ACAGATGAGG	ATCCTGCACG	TCAATGGGTT	TAATCCCGAG
XL-G(olf)	CTATCGTCAA	ACAGATGAGG	ATCCTGCACG	TCAATGGGTT	TAATCCCGAG
	451				500
G(olf)	GAAAAGAAAC	AGAAAATTCT	GGACATCCGG	AAAAATGTTA	AAGATGCTAT
XL-G(olf)	GAAAAGAAAC	AGAAAATTCT	GGACATCCGG	AAAAATGTTA	AAGATGCTAT
	501				550
G(olf)	CGTGACAATT	GTTTCAGCAA	TGAGTACTAT	AATACCTCCA	GTTCCGCTGG
XL-G(olf)	CGTGACAATT	GTTTCAGCAA	TGAGTACTAT	AATACCTCCA	GTTCCGCTGG
	551				600
G(olf)	CCAACCCGTA	AAACCAATTT	CGATCAGACT	ACATCAAGAG	CATAGCCCCT
XL-G(olf)	CCAACCCGTA	AAACCAATTT	CGATCAGACT	ACATCAAGAG	CATAGCCCCT
	601				650
G(olf)	ATCACTGACT	TTGAATATTC	CCAGGAATTC	TTTGACCATG	TGAAAAAACT
XL-G(olf)	ATCACTGACT	TTGAATATTC	CCAGGAATTC	TTTGACCATG	TGAAAAAACT
	651				700
G(olf)	TTGGGACGAT	GAAGGCGTGA	AGGCATGCTT	TGAGAGATCC	AACGAATACC
XL-G(olf)	TTGGGACGAT	GAAGGCGTGA	AGGCATGCTT	TGAGAGATCC	AACGAATACC
	701				750
G(olf)	AGCTGATTGA	CTGTGCACAA	TACTTCCTGG	AAAGAATCGA	CAGCGTCAGC
XL-G(olf)	AGCTGATTGA	CTGTGCACAA	TACTTCCTGG	AAAGAATCGA	CAGCGTCAGC
	751				800
G(olf)	TTGGTTGACT	ACACACCCAC	AGACCAGGAC	CTCCTCAGAT	GCAGAGTTCT
XL-G(olf)	TTGGTTGACT	ACACACCCAC	AGACCAGGAC	CTCCTCAGAT	GCAGAGTTCT
	801				850
G(olf)	GACATCTGGG	ATTTTTGAGA	CACGATTCCA	AGTGGACAAA	GTAAACTTCC
XL-G(olf)	GACATCTGGG	ATTTTTGAGA	CACGATTCCA	AGTGGACAAA	GTAAACTTCC
	851				900
G(olf)	ACATGTTTGA	TGTTGGTGGC	CAGAGGGATG	AGAGGAGAAA	ATGGATCCAG
XL-G(olf)	ACATGTTTGA	TGTTGGTGGC	CAGAGGGATG	AGAGGAGAAA	ATGGATCCAG
	901				950
G(olf)	TGCTTTAACG	ATGTCACAGC	TATCATTTAC	GTCGCAGCCT	GCAGTAGCTA
XL-G(olf)	TGCTTTAACG	ATGTCACAGC	TATCATTTAC	GTCGCAGCCT	GCAGTAGCTA
	951				1000
G(olf)	CAACATGGTG	ATTCGAGAAG	ATAACAACAC	CAACAGGCTG	AGAGAGTCCC
XL-G(olf)	CAACATGGTG	ATTCGAGAAG	ATAACAACAC	CAACAGGCTG	AGAGAGTCCC

Fig. 12 (cont.)

	1001				1050
G(olf)	TGGATCTTTT	TGAAAGCATC	TGGAACAACA	GGTGGTTACG	GACCATTTCT
XL-G(olf)	TGGATCTTTT	TGAAAGCATC	TGGAACAACA	GGTGGTTACG	GACCATTTCT
	1051				1100
G(olf)	ATCATCTTGT	TCTTGAACAA	ACAAGATATG	CTGGCAGAAA	AAGTCTTGGC
XL-G(olf)	ATCATCTTGT	TCTTGAACAA	ACAAGATATG	CTGGCAGAAA	AAGTCTTGGC
	1101				1150
G(olf)	AGGGAAATCA	AAAATTGAAG	ACTATTTCCC	AGAATATGCA	AATTATACTG
XL-G(olf)	AGGGAAATCA	AAAATTGAAG	ACTATTTCCC	AGAATATGCA	AATTATACTG
	1151				1200
G(olf)	TTCTGAAGA	CGCAACACCA	GATGCAGGAG	AAGATCCCAA	AGTTACAAGA
XL-G(olf)	TTCTGAAGA	CGCAACACCA	GATGCAGGAG	AAGATCCCAA	AGTTACAAGA
	1201				1250
G(olf)	GCCAAGTTCT	TTATCCGGGA	CCTGTTTTTG	AGGATCAGCA	CGGCCACCGG
XL-G(olf)	GCCAAGTTCT	TTATCCGGGA	CCTGTTTTTG	AGGATCAGCA	CGGCCACCGG
	1251				1300
G(olf)	TGACGGCAAA	CATTACTGCT	ACCCGCACTT	CACCTGCGCC	GTGGACACAG
XL-G(olf)	TGACGGCAAA	CATTACTGCT	ACCCGCACTT	CACCTGCGCC	GTGGACACAG
	1301				1350
G(olf)	AGAACATCCG	CAGGGTGTTT	AACGACTGCC	GCGACATCAT	CCAGCGGATG
XL-G(olf)	AGAACATCCG	CAGGGTGTTT	AACGACTGCC	GCGACATCAT	CCAGCGGATG
	1351		1377		
G(olf)	CACCTCAAGC	AGTATGAGCT	CTTGTGA		
XL-G(olf)	CACCTCAAGC	AGTATGAGCT	CTTGTGA		

Figure 13

	1				50
G(olf)	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
x1-G(olf)	mglcyslrpl	lfgggpgddpc	aaseppveda	qpapapalap	vraaardtar
	51				100
G(olf)	~~~~~	~~~~~	~~~~~	<u>mgc</u>	<u>Lqmsktted</u>
x1-G(olf)	tllprggeg	pacarpkadk	pkekrqrteq	Lsaeereaak	ereavKEaRk
	101				150
G(olf)	<u>ankkIekqLq</u>	<u>kerlaykaTH</u>	<u>RLLLLGAGES</u>	<u>GKSTIVKQMR</u>	<u>ILHVNGFNPE</u>
x1-G(olf)	vsrgIdrmLr	dqkrdlqqTH	RLLLLGAGES	GKSTIVKQMR	ILHVNGFNPE
	151				200
G(olf)	EKKQKILDIR	KNVKDAIVTI	VSAMSTIIPP	VPLANPENQF	RSDYIKSIAP
x1-G(olf)	EKKQKILDIR	KNVKDAIVTI	VSAMSTIIPP	VPLANPENQF	RSDYIKSIAP
	201				250
G(olf)	ITDFEYSQEF	FDHVKKLWDD	EGVKACFERS	NEYQLIDCAQ	YFLERIDSVS
x1-G(olf)	ITDFEYSQEF	FDHVKKLWDD	EGVKACFERS	NEYQLIDCAQ	YFLERIDSVS
	251				300
G(olf)	LVDYTPTDQD	LLRCRVLTSG	IFETRFQVDK	VNFHMFVGG	QDERRKWIQ
x1-G(olf)	LVDYTPTDQD	LLRCRVLTSG	IFETRFQVDK	VNFHMFVGG	QDERRKWIQ
	301				350
G(olf)	CFNDVTAIY	VAACSSYNMV	IREDNNTNRL	RESLDFESI	WNNRWLRTIS
x1-G(olf)	CFNDVTAIY	VAACSSYNMV	IREDNNTNRL	RESLDFESI	WNNRWLRTIS
	351				400
G(olf)	IILFLNKQDM	LAEKVLGKS	KIEDYFPEYA	NYTVPEDATP	DAGEDPKVTR
x1-G(olf)	IILFLNKQDM	LAEKVLGKS	KIEDYFPEYA	NYTVPEDATP	DAGEDPKVTR
	401				450
G(olf)	AKFFIRDLFL	RISTATGDGK	HYCYPHFTCA	VDTENIRRVF	NDCRDIIQRM
x1-G(olf)	AKFFIRDLFL	RISTATGDGK	HYCYPHFTCA	VDTENIRRVF	NDCRDIIQRM
	451				
G(olf)	HLKQYELL				
x1-G(olf)	HLKQYELL				

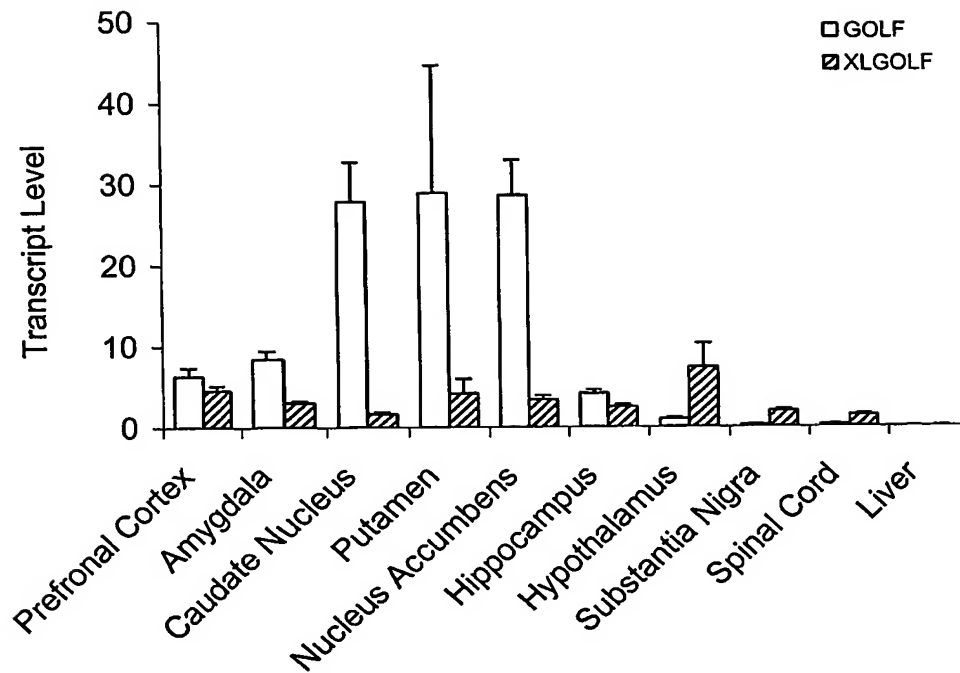
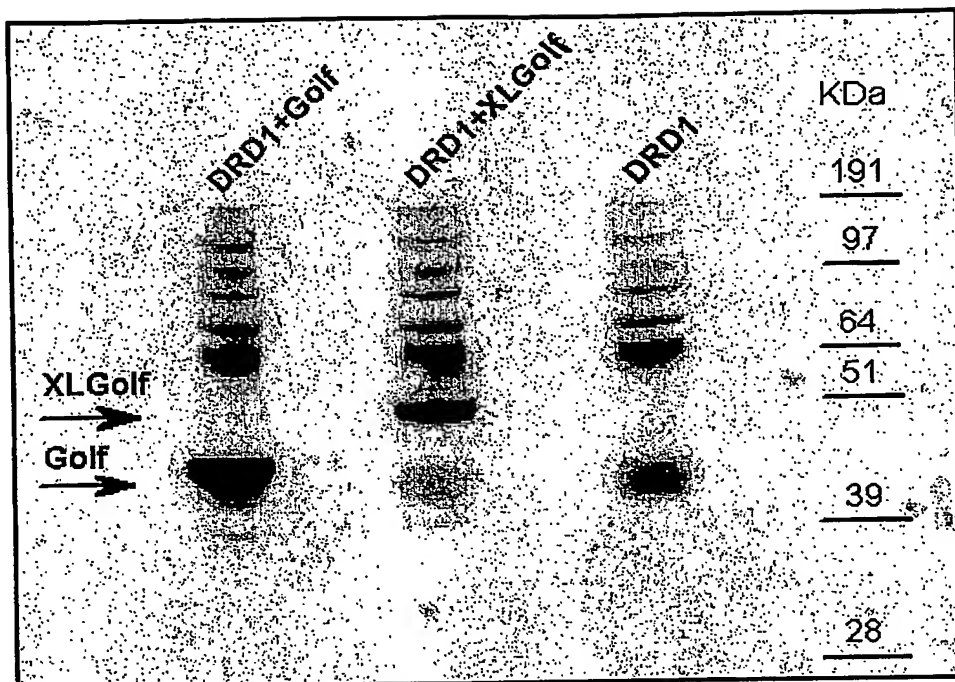
Figure 14

Figure 15

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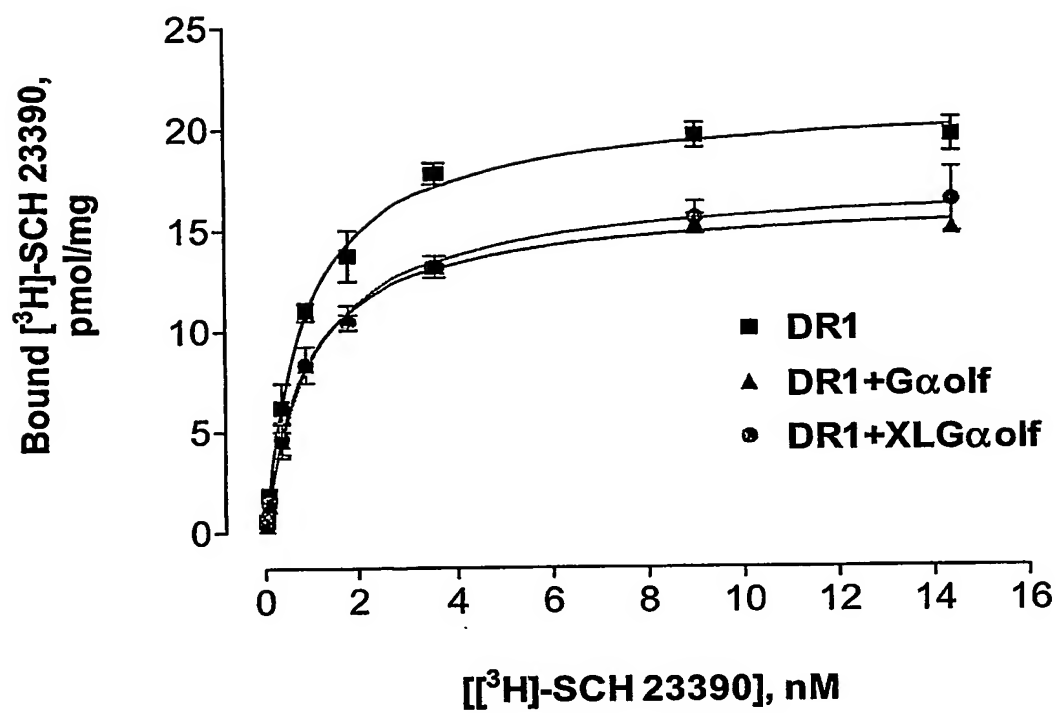
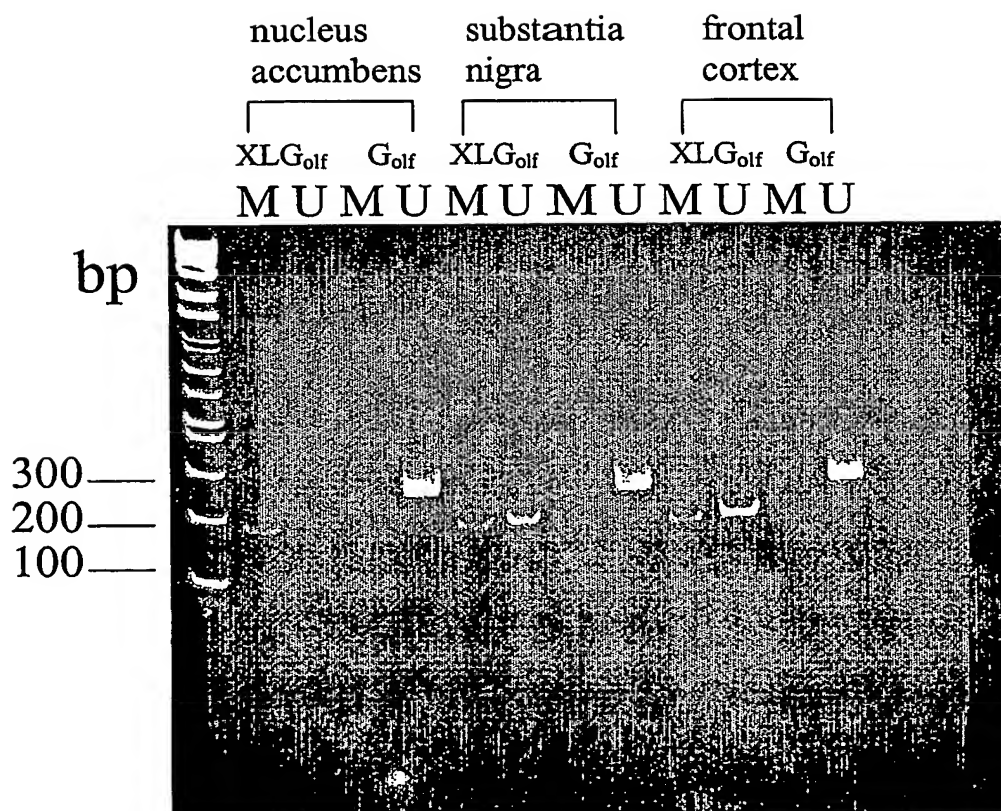
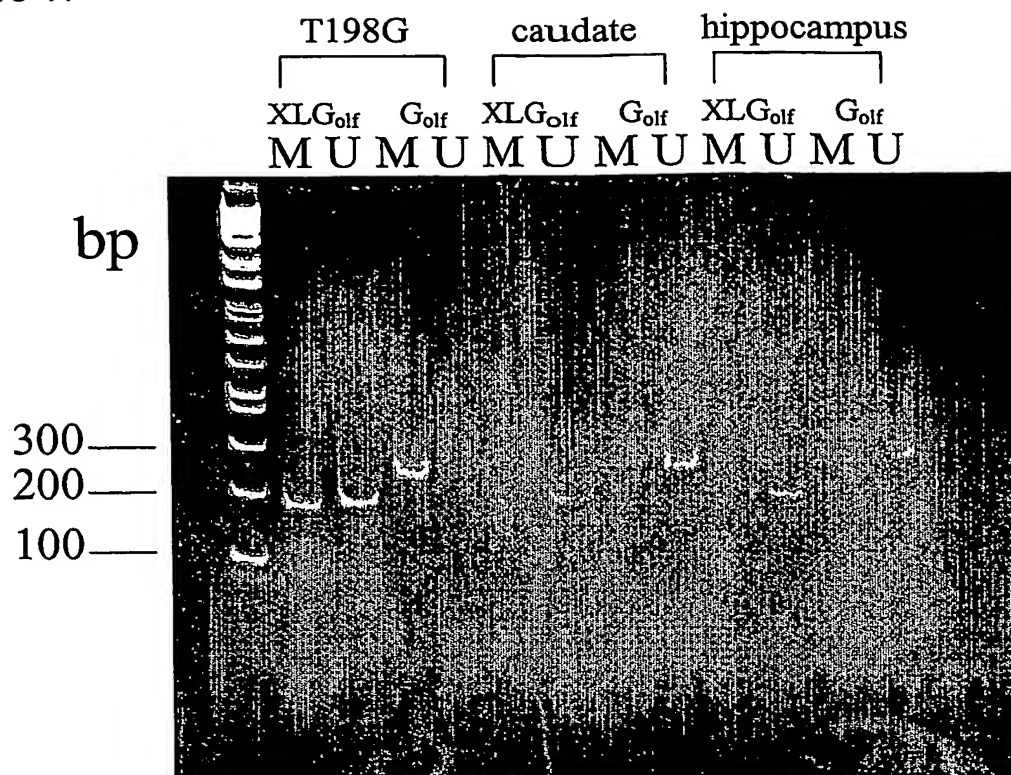
Figure 16

Figure 17



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Figure 18**Mouse XLGolf cDNA**

ggcgaggctcgcgcctgggacgttcgaaggatgcacaatggcccttcggggcagtgaggggc
cgtggtccccagccggacccaccgcagccacgccccgcagctggcgccccaggggtccgagt
gcagcgctgcctccggcgtcggcgaggagcccggtctgacccgcggggacttgcccgcgccc
cgcgccccgatgggcctatgctacagcctgcggccgctgctcttcgggagcccagaggacac
cccgtgtgcgggcctcggaaccctgcgcagaggatgctcagcccagcgccccggccccctg
cctcgatcccagccccggctcccgtagggaccctgctccggcgtggcgggcgccggatcgtc
gcgaacgcgcggccgcccaggcgagctgcagagccgcccggcgacaggagcagctacgagccga
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agcagaagcgggacctgcagcagacgcaccggctcctgctgctgggggctggtgagtcggg
aaaagcactatcgtcaaacagatgaggatcctgcacgtcaatggcttcaaccccaggaaaa
gaagcagaaaaattctggacatcaggaaaaatgtcaaagatgcgatcgtgacaatcgtttcag
caatgagtactatcatacctccagttccactggccaaccctgagaaccagttccggtcagat
tatatcaagagcatagcccctatcactgactttgaatatccaggagttctttgaccatgt
gaagaagctgtgggacgatgaaggagtgaaggcctgctttgagagatccaacgagtaccagc
tgatcgactgtgcacaatagtaagttgcttccaggccagggtctctctgaagcctgattgca
ttcttggctgtgcccaccctatagctcagagggtttcctaaaagcagaaatcaagagtaactt
tgacttcagaagttaactttctaaagaggagggttttggaacattgtttccctgaagggtga
ttcagtaaatgtgtttcaccaaaggagctgggttttggaacattgtttcactgaaggagatg
tggttcagtaaacattgtttcacgagcgaaccagagtaagtttctctttgtcctcttaagttct
tttcattttttttcctatctgcacagagttaaagacatatctactaattataatgtacccaa
atattcactattatatttttaatttttaagcaagcctctccaaattaagttttttaatatcaa
aatgtgcaggactggggagatggccttgctatctataaaagcactggatgcttttccagagga
cctgagttcagttcccagcactcagctcacaaccacctataactccagctccaggggatctg
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attgtttccctgctgcattttggagttcagcagaatgaagcttacattgggtctcgggcagggt
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gttctgattggctgatagtgaaaaggaaaaagcagattgattataaccagaaagtgagagttgt
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gtctgagatcaagtacaggccagtggttggatcccacccatagaatccaggtaatttgctttg
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ttccgtgatgggttctcaagtaataggacaaacattgggttgattcccttgcaaagtaaaaactg
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agttacctgtttaaatgccttctgggggttggtagaacataactctatagtgatcatcattta
atgagtttaattctaagtgactggaactttctctgtgaagggtgaaactcacaataaagctgt
tggtgtataagaagaataaaataattattttcagg

Figure 19**Mouse XLGolf Protein**

MGLCYSLRPLLFGSPEDTPCAASEPCAEDAQPSAAPAPASIPAPAPVGTLLRRGGGRIVANARPPGELQS
RRRQEQRLAEEREAAKEARKVSRGIDRMLREQKRD LQQTHRLLLLGAGESGKSTIVKQMRILHVNGFN
PEEKKQKILDIRKNVKDAIVTIVSAMSTIIPVPLANPENQFRSDYIKSIAPITDFEYSQEFFDHVKKLWDD
EGVKACFERSNEYQLIDCAQ